

New Mexico MS4 General Permit (Draft) (NMR040000)



Stormwater Pollution Prevention



National Pollutant Discharge Elimination System (NPDES)

General Permit (MS4) Regulates a conveyance or system of conveyances owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.

Construction Activity General Permit (SWPPP)

The EPA opts to permit these types of activities separately because of the significant differences in the nature of these activities.

Multi-Sector General Permit

For Industrial activities such as: wastewater treatment facilities, Landfills, recycling facilities, hazardous waste mining, metal, oil, coal, gas, steam electric plants, treatment works, and construction activities.

Individual Permits

Activities that do not meet the criteria of the other permits. A custom permit is designed specifically for the activity involved. Site specific.

What's an MS4?

Municipal **S**eparate **S**torm **S**ewer **S**ystem

- A "separate storm sewer system" includes ditches, curb & gutters, storm sewers, and similar means of collecting or conveying runoff that do not connect with a wastewater collection system or treatment plant.
- And to be a "municipal separate storm sewer system" (MS4), the system must be owned or operated by a public agency such as a town, city or county that is located within an urbanized area.

ARTICLE III. Stormwater Ordinance

Sec. 34-125. Purpose.

The purpose of this article is to promote the elimination or reduction of pollutants from entering the city's municipal separate storm sewer system and for control over discharges to and from the system. It shall also be the purpose of this article to:

- (1) Maintain and improve the quality of surface water and groundwater within the city limits;
- (2) Prevent the discharge of contaminated stormwater runoff from industrial, commercial, residential, and construction sites into the municipal separate storm sewer system (MS4), as defined in section 34-130, and natural waters and water courses within the city;

Region 6 Basic Expectations for MS4 Permits

- **WQ Impairment/TMDLS** - must be addressed
- **Watershed Based MS4 Permit** - (*Phase II Ms4s in the LRG*): Evaluates measurable goals to meet (MEP) minimum measures
- **Monitoring programs** - Wet Weather Monitoring: EPA suggested upstream/downstream monitoring concept. (*Individual vs. cooperative program.*)
- **GI/LID** - Need to identify/remove impediments to
- **Numeric performance measures** – Need to quantify results

Concept of General Permit

Modeled off of the Middle Rio Grande Permit

- Based on 6 minimum measures, water quality and endangered species protection
- Permittees may choose either:
 - Option A – Individual Monitoring Program
 - Option B – Cooperative Monitoring/Reporting Program*

***Watershed Based permit**

Six Minimum Control Measures

EPA NPDES Permit Requirement for Phase II MS4 (smaller municipalities with populations less than 100,000)

Stormwater Pollution Prevention Plan Six Minimum Measures

1. Public education and outreach on stormwater impacts
2. Public participation and involvement
3. Illicit discharge detection and elimination
4. Construction site stormwater runoff control
5. Post-construction stormwater management in new development/redevelopment
6. Pollution prevention/good housekeeping for municipal operations

Storm Drain Map/ArcGIS



Storm Drain Map

- sw Man hole
- sw Inlet
- sw GravityMain

0 50 100 200 Feet

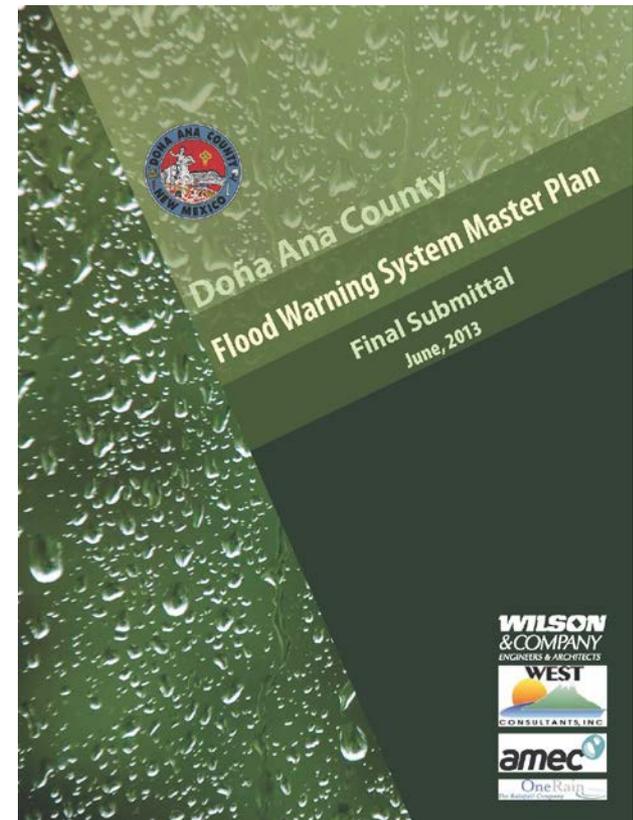
Flood Warning Weather Stations

- City of Las Cruces Flood Warning System
 - 8 ALERT2 Flood Warning /Weather Stations
- Benefits

Collection of data can be used for:

- Community Safety/Flood Alerts
- Watershed Management
- Engineering/Planning/Design
- Education/Outreach
- Historic Rainfall Data
- Sediment Management
- FEMA/CRS Program

WEATHER.DONAANACOUNTY.ORG



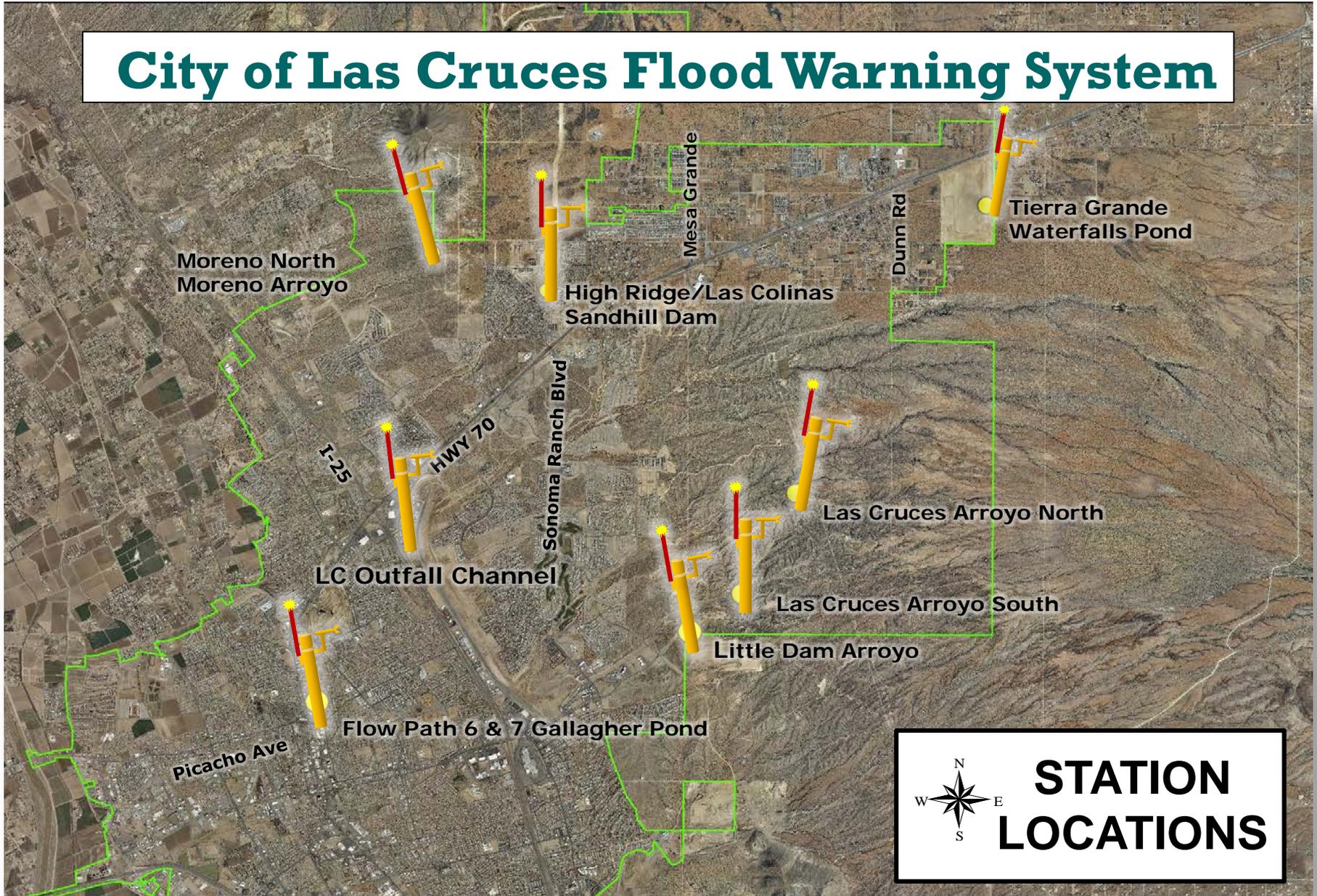
Flood Warning Weather Station



Weather Stations include:

- Rain Gauge
- Measuring Devices
- Stream Gauge
- Advanced communication technology to transmit rainfall and other data to central location

City of Las Cruces Flood Warning System



Departmental Coordination



Utilities

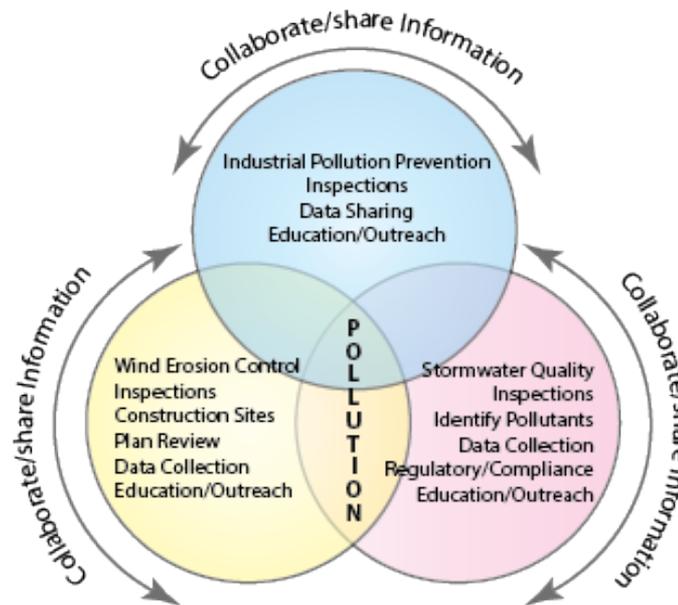
Regulatory Environmental Services



Community Development
Wind/Erosion Control



Public Works
Stormwater
Pollution Prevention



What is a Watershed Based Permit?

- Geographic focus/Natural boundaries
- Address pollutants at the watershed level
- Participation between different agencies
- Sharing resources

MS4 Cooperative

- City of Las Cruces
- Doña Ana County
- New Mexico State University (NMSU)
- Sunland Park
- Town of Mesilla
- New Mexico Department of Transportation (NMDOT)
- City of Anthony

To share:

- ✓ Sampling
- ✓ Outreach/Education
- ✓ Watershed Issues



Questions?

